Morgan Vise Company

108 No. Jefferson St., Chicago, Ill.

Manufacturers of

Metal and Woodworking Vises

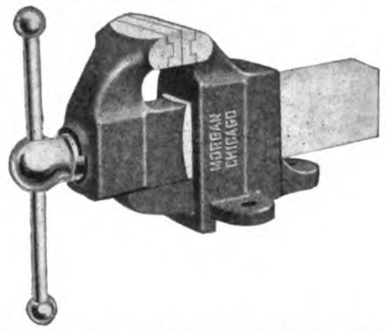
Metal Working Vises

Morgan Vises are guaranteed against breakage, and we will replace free of charge any part broken in service. The phantom view on this page, which illustrates details of construction, shows why a Morgan Vise will not break where 40% of other vises do. In place of being cored all the way through the sliding bar, Morgan Vises are solid, thus giving unusual strength qualities at the exact place where most needed.

Stationary Base Machinists' Vise

This vise is unsurpassed for strength, rigidity, and durability. All parts are interchangeable in view of special machining processes being used.

Castings. Castings are made of charcoal iron, which is an iron of an unusual degree of fineness. Ordinary gray iron is very porous and while strong, has not the long life qualities that charcoal iron has. The breaking strain of charcoal iron is about 40% greater than that of gray iron. All cast iron parts of the vise are machined to micrometer accuracy. This insures accurate milling of the sliding bar, and proper fit of the sliding bar in the opening of the base is assured by broaching this base with expensive machinery.

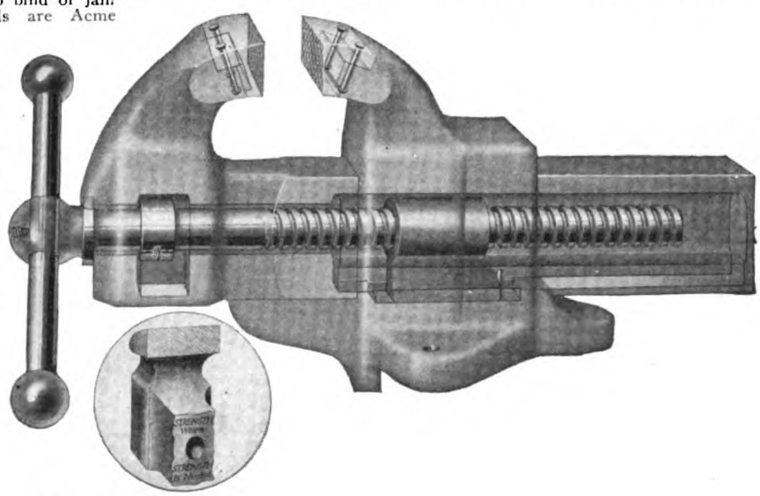


Jaws. The jaws are milled parallel and are fitted with interchangeable tool steel faces, which may be removed when battered or worn, thus adding years to the life of the vise. The cost of renewal of the tool steel faces is only a few cents compared to the original cost of the vise.

The Screw. The screws are manufactured from cold rolled No. 1020 S. A. E. stock. The diameter of the screw, of course, varies with the size of the vise, but in each instance the diameter is over-size rather than under-size in order to have the assurance of dependable strength. This steel is a special tough non-stretching metal, which makes it impossible for the screw to bind or jam in the nut. The threads are Acme standard die cut. This feature permits the screw to work freely back and forth in the nut without fitting too loose or too tight.

The Nut. The nuts in all Morgan Machinists' Vises are made of a high grade malleable iron, which eliminates all possibilities of breakage. As this is the part which wears out the soonest in all vises, the nut in the Morgan Vise has been made unusually long in order to give a full bearing surface to the screw. This is one of the important features of a Morgan Vise, and accounts for its long life.

All parts of the Morgan Vise are interchangeable.

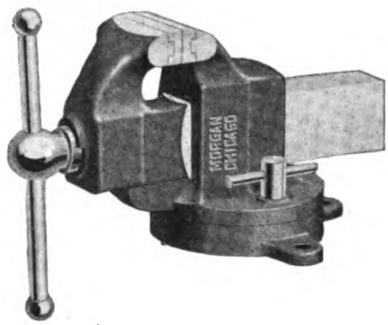


Stationary Base Machine Vise

Vise No.	Width of Jaws, Inches	Jaw Opens, Inches	Weight Pounds
30	3	4	22
35	3½	5	29
40	4	5½	42
45	4½	6¼	55
50	5	7	70
55	5½	8½	100
60	6	9½	135
70	7	12	200
80	8	12	250

Swivel Base Machinists' Vise

All the strength and rigidity of the Morgan Stationary Base Vise is maintained in the Swivel Base series. All engaging parts are milled to insure smooth and perfect working. The same careful workmanship and close and high standard of inspection is maintained in the manufacture of this type of vise. This vise may be swung and clamped in any desired position; a specially designed nut for locking the base at any angle makes it impossible to turn the vise when in use and prevents any play which would destroy the rigidity.



Castings. Are made of charcoal iron with the same care giving to machinery the castings as mentioned in the specifications of the stationary type of vise.

Jaws. See specifications of stationary type of vise.

The Screw. Manufactured from No. 1020 S. A. E. stock; an assurance of strength, durability, and long life.

The Nut. Malleable iron. They wear out before they ever break, and to prevent wearing, the nut is made longer in order to give a greater bearing surface to the screw. All parts of the Morgan Vise are interchangeable.

Swivel Base Machine Vise

Vise No.	Width of Jaws, Inches	Jaw Opens, Inches	Weight Pounds
130	3	4	28
135	3½	5	36
140	4	5½	52
145	4½	6¼	64
150	5	7	85
155	5½	8½	115
160	6	9½	150
170	7	12	220

Other Models

The Morgan Vise Company also manufactures a Combination Pipe Vise with swivel base that is so constructed as to embody the best features of our standard machinists' vise and the convenience of a pipe vise. This vise is made in width of jaw sizes of 3½, 4½, 5, and 6 inches.

The Morgan Chucking Vise is designed for use on the drill press, milling machine, shaper, and planer, and is equipped with the Morgan Lightning Chucking Device. The sliding jaw of this vise automatically adjusts itself to all shapes of work. The width of jaw in inches for this vise is as follows: 4, 5, 8, and 10 inches.

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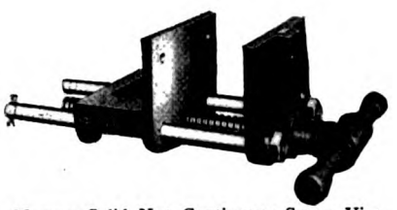
Wood and Metalworking Vises

Morgan Woodworking Vises are guaranteed against breakage, and we will replace free of charge any part broken in service. These vises have been designed and built to withstand the most severe service. Morgan Woodworking Vises are distinguished by their simplicity of construction, and every part is carefully and accurately machined and interchangeable.

Solid Nut Continuous Screw Vise

This vise is designed and built to stand the most severe service. It is one of the most popular vises we manufacture. It incorporates features that enable it to last a lifetime.

Jaws. The jaws are made of charcoal iron, which is unusually strong. Ordinary gray iron is very porous and while strong, has not the long life qualities that charcoal iron has. The breaking strain of charcoal iron is about 40% greater than that of gray iron. The jaw faces are accurately milled so as to insure a square grip. The sliding bars move back and forth freely, and will not bind with any size opening.



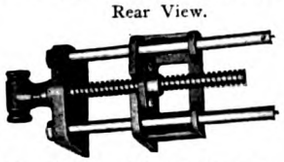
Morgan Solid Nut Continuous Screw Vise.

The Screw. The screw is made of formula metal No. 1020 S. A. E. It is a metal that has especially tough non-stretching qualities, which makes it impossible for the screw to bind or jam in the nut. The diameter of the screw is 1 inch. Three Acme threads to the inch are die cut. This assures an easy and rapid back and forth movement of the jaw of the vise.

The Nut. The nut is made of an extra hard bronze. The thread is cut into the nut with unusual care so as to insure a close though free fit, thus adding years to the life of the vise.

Side Bars. The side bars are of ⅞ cold rolled steel and are fastened to the front jaw by means of hexagon nuts. A heavy shoulder is cut on the bar, enabling the movable jaw to be drawn up tight on to the side bars, thus giving extreme rigidity and strength.

Rear View.



The stop at all times fits down into its socket in view of the fact that there are two cored holes in the bottom of the socket which allow dirt and shavings to drop out beneath the stop.

The Handle. The handle is made of hickory and fitted with ends that will withstand much battering and will not chip.

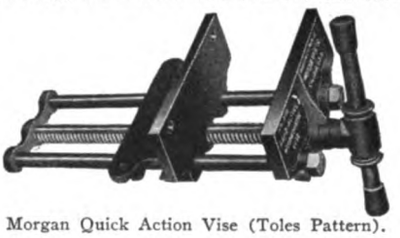
Vise No.	Width of Jaw, Inches	Depth of Jaw, Inches	Opens, Inches
10A	7	4	8½
15A	8	4	10
20A	10	4	12

No. 10A Vise can be furnished with 12-inch opening if so desired.

Morgan Quick Action Vise (Toles Pattern)

The working action of this vise is the most simple and effective of any of the screw adjusting type. The screw, having intercepted threads, operates in a half nut, a slight turn of the handle disengaging the screw and permitting the jaw to slide back and forth at will. A turn in opposite direction engages screw with nut, holding the work firmly in place.

Jaws. The jaws are made of charcoal iron, which is unusually strong. Ordinary gray iron is very porous and while strong, has not the long life qualities that charcoal iron has. The breaking strain of charcoal iron is about 40% greater than that of gray iron. The jaw faces are accurately milled so as to insure a square grip. The sliding bars move back and forth freely, and will not bind with any size opening.



Morgan Quick Action Vise (Toles Pattern).

The Screw. The screw is 1¼ inches in diameter made of a special cold drawn steel, No. 1020 S. A. E. It is a metal of unusual toughness and possesses non-stretching qualities, which makes it impossible for the screw to bind or jam in the nut.

The Half Nut. The half nut is a high quality bronze casting. The thread is cut into the nut with unusual care so as to assure a close though free fit, thus adding years to the life of the vise.

Side Bars. The side bars are of ⅞ cold rolled steel and are fastened to the front jaw by means of hexagon nuts. A heavy shoulder is cut on the bar, enabling the movable jaw to be drawn up tight on to the side bars, thus giving extreme rigidity and strength.

The Handle. The handle is made of hickory and fitted with ends that will withstand much battering and will not chip.

These vises are furnished either with or without a stop in the front jaw. There is absolutely nothing about this vise to get out of order.

Vise No.	Width of Jaw, Inches	Jaw Opens, Inches	Depth Jaw Inches
100	7	8	4
200	10	12	4
	With Stop in Front Jaw		
100A	7	8	4
200A	10	12	4

Massey Lightning Grip Woodworkers' Vise

This vise is the first quick acting vise manufactured in the United States. The patterns were originally brought to this country from England by its inventor and original manufacturer, Mr. Massey.

In the many years of its existence the Lightning Grip Woodworkers' Vise has established a very large following which is justified by its simplicity, quick action, and durability.

The operation of this vise is very simple. When the handle is upright the cam "H" allows the dog "L" to disengage the rack "E". This allows the front jaw to be moved freely and adjusted to the work. By moving the handle a quarter turn to the right the cam forces the dog to engage in the rack and locks securely. Very simple of construction, no springs or complicated parts to get out of order.

All castings in this vise are made of a special grade of charcoal iron. Ordinary gray iron while strong, has not the long life qualities that charcoal has. The breaking strain of charcoal iron is about 40% greater than that of gray iron.

Vise No.	Width of Jaw, Inches	Jaw Opens, Inches	Weight Pounds
19	7	7	29
17	9	12	47
	With Stop in Front Jaw		
19A	7	7	30